## Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A text sentence comparison method comprising: converting a first text sentence and a second text sentence into a first R tree and a second R tree, respectively; calculating a distance between the first R tree and the second R tree on the basis of a distance between two R trees, which is defined at least in accordance with a condition of a mapping between vertexes of the two R trees, the calculation of the distance between the first R tree and the second R tree including calculation of: a distance between a forest, which the first R tree includes, and a forest, which the second R tree includes; a distance between a subtree, which the first R tree includes, and a subtree, which the second R tree includes; and a vertex mapping weight of a mapping from the first R tree to the second R tree; and calculating a distance between the first text sentence and the second text sentence on the basis of the following expression: the distance = (the calculated distance between the first R tree and the second R tree) / (a sum of vertexes in the first R tree and the second R tree), wherein in the converting, word information and case information in the first text sentence are assigned to respective vertexes of the first R tree so that at least one of the vertexes of the first

R tree contains the word information and the case information in the first text sentence,

assigned to respective vertexes of the second R tree so that at least one of the vertexes of the second R tree contains the word information and the case information in the second sentence,

and

the vertex mapping weight is calculated on the basis of word substitution

weight, word deletion weight, word insertion weight, case substitution weight, case deletion

2. (Canceled)

weight and case insertion weight.

3. (Currently Amended) The text sentence comparison method according to elaim 2claim 1, wherein:

in the conversion:

words included in the first text sentence <u>isare</u> allotted to vertexes of the first R trees; and

words included in the second text sentence is are allotted to vertexes of the second R trees; and

the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, and word insertion weight.

- 4. (Canceled)
- 5. (Original) The text sentence comparison method according to claim 1, further comprising:
  - setting the condition of the mapping between the two R trees.
- 6. (Original) The text sentence comparison method according to claim 1, wherein the condition of the mapping between the two R trees includes:

the mapping is a one-to-one mapping;

the mapping preserves parent-child relationship; and

the mapping preserves structure.

7. (Original) The text sentence comparison method according to claim 1, further comprising:

inputting the first text sentence and the second text sentence; and outputting the calculated distance between the first text sentence and the second text sentence.

8. (Currently Amended) A text sentence comparison method comprising:

converting a first text sentence and a second text sentence into a first RO tree

and a second RO tree, respectively;

calculating a distance between the first RO tree and the second RO tree on the
basis of a distance between two RO trees, which is defined at least in accordance with a
condition of a mapping between vertexes of the two RO trees, the calculation of the distance
between the first RO tree and the second RO tree including calculating:
a distance between a forest, which the first RO tree includes, and a
forest, which the second RO tree includes;
a distance between a subtree, which the first RO tree includes, and a
subtree, which the second RO tree includes; and
a vertex mapping weight of a mapping from the first RO tree to the
second RO tree; and
calculating a distance between the first text sentence and the second text
sentence on the basis of the calculated distance between the first RO tree and the second RO
tree,
wherein in the converting,
word information and case information in the first text sentence are
assigned to respective vertexes of the first RO tree so that at least one of the vertexes of the

word information and case information in the first text sentence, and

word information and case information in the second text sentence are assigned to respective vertexes of the second RO tree so that at least one of the vertexes of the second RO tree contains the word information and the case information in the second sentence, and

the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, word insertion weight, case substitution weight, case deletion weight and case insertion weight.

- 9. (Canceled)
- 10. (Currently Amended) The text sentence comparison method according to elaim 9claim 8, wherein:

in the conversion:

words included in the first text sentence is are allotted to vertexes of the first RO trees; and

words included in the second text sentence <u>isare</u> allotted to vertexes of the second RO trees; and

the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, and word insertion weight.

- 11. (Canceled)
- 12. (Original) The text sentence comparison method according to claim 8, further comprising:

setting the condition of the mapping between the two RO trees.

13. (Original) The text sentence comparison method according to claim 8, wherein the condition of the mapping between the two RO trees includes:

the mapping is a one-to-one mapping;
the mapping preserves parent-child relationship; and
the mapping preserves brother relationship;
the mapping preserves structure.

14. (Original) The text sentence comparison method according to claim 8, further comprising:

inputting the first text sentence and the second text sentence; and outputting the calculated distance between the first text sentence and the second text sentence.

15. (Currently Amended) A text sentence comparison apparatus comprising:

an input section for inputting a first text sentence and a second text sentence;

a tree structure conversion section for converting the first text sentence and the second text sentence into a first R tree and a second R tree, respectively;

a distance calculation section for calculating a distance between the first R tree and the second R tree on the basis of the following expression: the distance = (the calculated distance between the first R tree and the second R tree) / (a sum of vertexes in the first R tree and the second R tree), the distance calculation section also calculating:

a distance between a forest, which the first R tree includes, and a

forest, which the second R tree includes; and

a distance between a subtree, which the first R tree includes, and a
subtree, which the second R tree includes; and

a semantic content comparison section for calculating a distance between the first text sentence and the second text sentence on the basis of the calculated distance between the first R tree and the second R tree-tree; and

a mapping weight calculation section for calculating a vertex mapping weight
of mapping from the first R tree to the second R tree,
wherein in the tree structure conversion section,
word information and case information in the first text sentence are
assigned to respective vertexes of the first R tree so that at least one of the vertexes of the first
R tree contains the word information and the case information in the first text sentence,
word information and case information in the second text sentence are
assigned to respective vertexes of the second R tree so that at least one of the vertexes of the
second R tree contains the word information and the case information in the second sentence,
<u>and</u>
the vertex mapping weight is calculated on the basis of word
substitution weight, word deletion weight, word insertion weight, case substitution weight,
case deletion weight and case insertion weight.

- 16. (Canceled)
- 17. (Currently Amended) The text sentence comparison apparatus according to elaim 16claim 15, wherein:

the tree structure conversion section

allots words included in the first text sentence to vertexes of the first R trees, and

allots words included in the second text sentence to vertexes of the second R trees; and

the vertex mapping weight calculation section calculates the vertex mapping weight on the basis of word substitution weight, word deletion weight, and word insertion weight.

## 18. (Canceled)

19. (Original) The text sentence comparison apparatus according to claim 15, further comprising:

a setting input section for allowing a user to set the condition of the mapping between the two R trees.

20. (Original) The text sentence comparison apparatus according to claim 15, wherein the condition of the mapping between the two R trees includes:

the mapping is a one-to-one mapping;
the mapping preserves parent-child relationship; and
the mapping preserves structure.

21. (Original) The text sentence comparison apparatus according to claim 15, further comprising:

an output section for outputting the calculated distance between the first text sentence and the second text sentence.

22. (Currently Amended) A text sentence comparison apparatus comprising:

an input section for inputting a first text sentence and a second text sentence;

a tree structure conversion section for converting the first text sentence and the second text sentence into a first RO tree and a second RO tree, respectively;

a distance calculation section for calculating a distance between the first RO tree and the second RO tree on the basis of a distance between two RO trees, which is defined at least in accordance with a condition of a mapping between vertexes of the two RO trees, the distance calculation section also calculating:

	a distance betwe	en a forest,	which the f	irst RO tre	<u>e includes, a</u>	nd a
forest, which the sec	ond RO tree includ	<u>les;</u>				
	a distance betwe	en a subtree	, which the	first RO tr	ee includes,	and a
subtree, which the se	cond RO tree incl	udes: and				

a vertex mapping weight of a mapping from the first RO tree to the second RO tree; and a semantic content comparison section for calculating a distance between the first text sentence and the second text sentence on the basis of the calculated distance between the first RO tree and the second RO tree.tree; and a mapping weight calculation section for calculating a vertex mapping weight of a mapping from the first RO tree to the second RO tree, wherein in the tree structure conversion section, word information and case information in the first text sentence are assigned to respective vertexes of the first RO tree so that at least one of the vertexes of the first RO tree contains the word information and the case information in the first text sentence, word information and case information in the second text sentence are assigned to respective vertexes of the second RO tree so that at least one of the vertexes of the second RO tree contains the word information and the case information in the second sentence, and the vertex mapping weight is calculated on the basis of word substitution weight, word deletion weight, word insertion weight, case substitution weight, case deletion weight and case insertion weight. (Canceled) 23. (Currently Amended) The text sentence comparison apparatus according to 24. <del>claim 23</del>claim 22, wherein: the tree structure conversion section allots words included in the first text sentence to vertexes of the first

RO trees, and

allots words included in the second text sentence to vertexes of the second RO trees; and

the vertex mapping weight calculation section calculates the vertex mapping weight on the basis of word substitution weight, word deletion weight, and word insertion weight.

- 25. (Canceled)
- 26. (Original) The text sentence comparison apparatus according to claim 22, further comprising:

a setting input section for allowing a user to set the condition of the mapping between the two RO trees.

27. (Original) The text sentence comparison apparatus according to claim 22, wherein the condition of the mapping between the two RO trees includes:

the mapping is a one-to-one mapping;
the mapping preserves parent-child relationship; and
the mapping preserves brother relationship;
the mapping preserves structure.

28. (Original) The text sentence comparison apparatus according to claim 22, further comprising:

an output section for outputting the calculated distance between the first text sentence and the second text sentence.